

Montana WIC Program
Anemia Cut-Off Values
 1998 CDC Guidelines



Hemoglobin/Hematocrit Cut-Off Values

At sea-level, non-smoking

Age	HGB (<g/dL)	HCT (<%)
Infant		
• 6 to 12 mos.	11.0	33
Child		
• 1 to < 2 yrs.	11.0	33
• > 2 to 5 yrs.	11.1	33
Non-Pregnant		
• 12 to < 15 yrs.	11.8	36
• 15 to < 18 yrs.	12.0	36
• > 18 yrs.	12.0	36
Pregnant		
• 1 st Trimester	11.0	33
• 2 nd Trimester	10.5	32
• 3 rd Trimester	11.0	33

INSTRUCTIONS: To use this form use the “at sea-level, non-smoking” values for HGB and HCT initially based on the participants category and age. If the clinic location is at a higher elevation, add the adjustment value from the “adjustment for altitude” table (upper right). If the participant smokes, add the adjustment value from the “adjustment for smoking status” table (lower right).

Adjustment for Altitude

Long-term residency at a high altitude (greater than or equal to 3,000 feet) causes a generalized upward shift in hemoglobin concentration and hematocrit values. The cutoff values should be adjusted for this factor.

Altitude (feet)	HGB (<g/dL)	HCT (<%)
0-2999 ft	-	-
3000-3999 ft	+0.2	+0.5
4000-4999 ft	+0.3	+1.0
5000-5999 ft	+0.5	+1.5
6000-6999 ft	+0.7	+2.0

Adjustment for Smoking Status

Packs of Cigarettes Smoked Per Day	HGB (<g/dL)	HCT (<%)
0.5 - < 1.0	+0.3	+1.0
1.0 - < 2.0	+0.5	+1.5
>= 2.0	+0.7	+2.0